



Rapier Series Uplink Modules

Gigabit & Fast Ethernet

AT-A35/SX

1 x Gigabit fiber uplink SC connector

AT-A35/LX

1 x long haul Gigabit fiber uplink SC connector

AT-A39/T

1 x auto-negotiating Gigabit copper uplink RJ-45 connector

AT-A40/SC

Fast Ethernet multimode fiber uplink, SC connector

AT-A40/MT

Fast Ethernet multimode fiber uplink, MT connector

AT-A41/SC

Fast Ethernet singlemode fiber uplink, SC connector

AT-A41/MT

Fast Ethernet singlemode fiber, MT connector

AT-A42/GBIC

Uplink module with 1 GBIC bay

Uplink Flexibility

Uplink modules provide a flexible range of interface options, including Gigabit copper, Fast Ethernet fiber, and Gigabit fiber. This flexibility allows Rapier L3 switches to span a wide variety of network topologies and physical media.

Uplink modules can be changed or replaced to meet changing network requirements, reducing backup inventory costs.

Model Compatibility

	Rapier	Rapier i	Rapier G	Rapier GF	8700XL
AT-A35/SX	Yes	Yes	Yes	Yes	Yes
AT-A35/LX	Yes	Yes	Yes	Yes	Yes
AT-A39/T	Yes ¹	Yes	Yes	Yes	Yes
AT-A40/SC	No	Yes	Yes	Yes	Yes
AT-A40/MT	No	Yes	Yes	Yes	Yes
AT-A41/SC	No	Yes	Yes	Yes	Yes
AT-A41/MT	No	Yes	Yes	Yes	Yes
AT-A42/GBIC	Yes	Yes	Yes	Yes	Yes

1. Does not offer auto-negotiation, operates at 1000T only.

Regulatory Standards

AT-A35/SX, AT-A35/LX & AT-A39T	
EMC	EN55022 class A, FCC class A, and VCCI class A
Immunity	EN55024
Safety	Listing - UL, cUL, TUV Standards - UL 60950, CAN/CSA-C22.2 NO. 60950-00, EN60950
AT-A40/SC, AT-A40/MT, AT-A41/SC, AT-A41/MT & AT-A42/GBIC	
EMC	EN55022 class A, FCC class A, and VCCI class A
Immunity	EN55024
Safety	Listing - UL, cUL, TUV Standards - UL 60950, CAN/CSA-C22.2 NO. 60950-00, EN60950

Environmental Specifications

Operating Temp.	0°C to 40°C (32°F to 104°F)
Storage Temp.	-25°C to 70°C (-13°F to 158°F)
Relative Humidity	5 to 95% non-condensing

Key Features

- Gigabit fiber
- Gigabit fiber long haul
- Auto-negotiating Gigabit copper
- Fast Ethernet fiber (singlemode fiber & multi-mode fiber)
- Flexible, hot-swappable GBIC
- Interoperable with Rapier i, Rapier G6, Rapier G6F & 8700XL switches
- LED status indicators
- Compact size

Gigabit Interface Converter (GBIC) Modules

AT-G8SX

500m SX GBIC, based on 50 Micron fiber
220m SX GBIC, based on 62.5 Micron fiber

AT-G8LX10

10km LX GBIC, based on 9 Micron fiber

AT-G8LX25

25km LX GBIC, based on 9 Micron fiber

AT-G8LX40

40km LX GBIC, based on 9 Micron fiber

AT-G8LX70

70km LX GBIC, based on 9 Micron fiber

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Competitive Matrix

Model	Port	Connector	Cable Type ¹	Max Cable Length
AT-A35/SX	1000SX	SC	50/125 micron multimode fiber	550 m (1,804ft) ²
			62.5/125 micron multimode fiber	275 m (902ft) ³
AT-A35/LX	1000LX	SC	9/125 micron singlemode fiber	3km (1.8mi) increasing to 10km (6mi) if linking two 1000LX models
			50/125 or 62.5/125 micron multimode fiber	550m (1804ft) ²
AT-A39/T	10/100/1000T ⁴	RJ-45	CAT5 CAT5E	100 to 150m (328 to 492ft) 200m (656ft)
AT-A40/SC	100FX (multimode fiber, 1300nM)	SC	50/125 or 62.5/125 micron multimode fiber	2km
AT-A40/MT	100FX (multimode fiber, 1300nM)	MT-RJ	50/125 or 62.5/125 micron multimode fiber	2km
AT-A41/SC	100FX (multimode fiber, 1300nM)	SC	50/125 or 62.5/125 micron multimode fiber	2km
AT-A41/MT	100FX (singlemode fiber, 1300nM)	MT-RJ	9/125 micron singlemode fiber	15km
AT-A42/GBIC	1000X	Varies per GBIC	Refer to GBIC documentation	Refer to GBIC documentation

1. Refer to the IEEE 802.3 standards for further cable information.

2. Assumes a fiber optic cable rating of 500 Mhz/Km.

(Maximum cable length is 500m at a cable rating of 400 Mhz/Km.)

3. Assumes a fiber optic cable rating of 200 Mhz/Km.

(Maximum cable length is 220m at a cable rating of 160 Mhz/Km.)

4. Early versions of the AT-A39/T operate at 1000Mbps only.

10/100/1000Mbps operation is available only if the AT-A39/T

Uplink Module is installed in a Rapier G6, Rapier G6F or

Rapier i model, otherwise operation is fixed at 1000Mbps.

(ATR) Model	singlemode/ multimode	Wavelength	Tx power (dBm)	Sensitivity (dBm)	Saturation (dBm)
AT-A35/SX	multimode fiber	850	-4 to -9.5	-12.5 @ 62.5uM, -13.5 @ 50uM	0
AT-A35/LX	singlemode fiber	1310	-3 to -9.5 @ 9uM,	-20	-3
	multimode fiber		-3 to -11.5 @ 62.5uM,		
	multimode fiber		-3 to -11.5 @ 50uM		
AT-A40/SC	multimode fiber	1310	-14 to -19 @ 62.5uM, -14 to -22.5 @ 50uM	-34.5	-14
AT-A40/MT	multimode fiber	1310	-14 to -19 @ 62.5uM, -14 to -22.5 @ 50uM	-34.5	-14
AT-A41/SC	singlemode fiber	1310	-14 to -20	-31	-8
AT-A41/MT	singlemode fiber	1310	-14 to -20	-31	-8

Ordering Information

AT-A35/SX

1 x 1000SX/SC uplink with SC connector

AT-A35/LX

1 x 1000LX/SC uplink with SC connector

AT-A39/T

1 x 1000T uplink with RJ-45 connector

AT-A40/SC

100FX multimode fiber uplink with SC connector

AT-A40/MT

100FX multimode fiber uplink with MT connector

AT-A41/SC

100FX singlemode fiber uplink with SC connector

AT-A41/MT

100FX singlemode fiber uplink with MT connector

AT-A42/GBIC

Uplink module with 1 GBIC bay (Uses Allied Telesis standards-based GBIC modules. GBIC ordered separately)

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